

**WHAT IS CLAIMED IS:**

1 1. A polishing fixture assembly for a fiber optic cable connector polishing apparatus,  
2 comprising:  
3 a plurality of segments holding a plurality of different types of fiber optic cable  
4 connectors, a portion of each different type of fiber optic cable connector extending below its  
5 corresponding segment; and  
6 a hub interconnecting with each of said plurality of segments.  
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1 2. A polishing fixture assembly as recited in claim 1, wherein said hub holds said  
2 plurality of segments stationary.  
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1 3. A polishing fixture assembly as recited in claim 1, wherein at least one of said  
2 plurality of segments has an opening provided therein for receiving and holding a fiber optic cable  
3 connector at a predetermined angle relative to the plane of said hub.  
4

1 4. A polishing fixture assembly as recited in claim 1, wherein at least one of said  
2 plurality of segments has an opening provided therein for receiving and holding a fiber optic cable  
3 connector at an angle of six degrees relative to a plane perpendicular to said hub.  
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1 5. A polishing fixture assembly as recited in claim 1, wherein at least one of said  
2 plurality of segments has an opening provided therein for receiving and holding a fiber optic cable  
3 connector at an angle of eight degrees relative to a plane perpendicular to said hub.  
4

1 6. A polishing fixture assembly as recited in claim 1, wherein at least one of said  
2 plurality of segments has an opening provided therein for receiving and holding a fiber optic cable  
3 connector perpendicular to the plane of said hub.  
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1 7. A polishing fixture assembly as recited in claim 1, wherein said plurality of segments  
2 comprises six segments.  
3

1 8. A polishing fixture assembly as recited in claim 1, wherein the portion of each fiber  
2 optic cable connector extending below its corresponding segment is polished by a corresponding  
3 polishing pad of the polishing apparatus.  
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1 9. A polishing fixture assembly as recited in claim 8, wherein a polishing medium aids  
2 polishing between corresponding fiber optic cable connectors and corresponding polishing pads.  
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1 10. A polishing fixture assembly for a fiber optic cable connector polishing apparatus,  
2 comprising:  
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4 a plurality of segment pairs, each segment pair holding a plurality of different types of  
5 fiber optic cable connectors, a portion of each different type of fiber optic cable connector extending  
6 below its corresponding segment; and  
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8 a hub interconnecting with each of said plurality of segment pairs.  
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1 11. A polishing fixture assembly as recited in claim 10, wherein the segments of each  
2 segment pair are adjacent to each other.  
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1 12. A polishing fixture assembly as recited in claim 10, wherein the segments of each  
2 segment pair are nonadjacent to each other.  
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1 13. A polishing fixture assembly as recited in claim 10, wherein said hub holds said  
2 plurality of segment pairs stationary.  
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1 14. A polishing fixture assembly as recited in claim 10, wherein at least one of said  
2 plurality of segment pairs has at least two openings provided therein for receiving and holding at  
3 least two fiber optic cable connectors at a predetermined angle relative to the plane of said hub.  
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1 15. A polishing fixture assembly as recited in claim 10, wherein at least one of said  
2 plurality of segment pairs has at least two openings provided therein for receiving and holding at  
3 least two fiber optic cable connectors at an angle of six degrees relative to a plane perpendicular to  
4 said hub.  
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1 16. A polishing fixture assembly as recited in claim 10, wherein at least one of said  
2 plurality of segment pairs has at least two openings provided therein for receiving and holding at  
3 least two fiber optic cable connectors at an angle of eight degrees relative to a plane perpendicular to  
4 said hub.  
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1 17. A polishing fixture assembly as recited in claim 10, wherein at least one of said  
2 plurality of segment pairs has at least two openings provided therein for receiving and holding at

least two fiber optic cable connectors perpendicular to the plane of said hub.

18. A polishing fixture assembly as recited in claim 10, wherein said plurality of segment pairs comprises three segment pairs.

19. A polishing fixture assembly as recited in claim 10, wherein the portion of each fiber optic cable connector extending below its corresponding segment is polished by a corresponding polishing pad of the polishing apparatus.

20. A polishing fixture assembly as recited in claim 19, wherein a polishing medium aids polishing between corresponding fiber optic cable connectors and corresponding polishing pads.

21. A polishing fixture assembly for a fiber optic cable connector polishing apparatus, comprising:

a plurality of segments, said segments being arranged into a plurality of groups including a first group and a second group, wherein the first group of said segments holds a plurality of a first type of fiber optic cable connectors, and the second group of said segments holds a plurality of a second type of fiber optic cable connectors, a portion of each different type of fiber optic cable connector extending below its corresponding segment; and

a hub interconnecting with each of said plurality of segments.

22. A polishing fixture assembly as recited in claim 21, wherein each of the first and second groups of said segments comprises three of said segments.

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1 23. A polishing fixture assembly as recited in claim 21, wherein the first group of said  
2 segments comprises four of said segments, and the second group of said segments comprises two of  
3 said segments.  
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1 24. A polishing fixture assembly as recited in claim 21, wherein the plurality of groups  
2 includes a third group of said segments that holds a plurality of a third type of fiber optic cable  
3 connectors.  
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1 25. A polishing fixture assembly as recited in claim 24, wherein each of the first, second,  
2 and third groups of said segments comprises two of said segments.  
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1 26. A fiber optic cable connector polishing apparatus, comprising:  
2 a polishing fixture assembly having a plurality of segments holding a plurality of  
3 different types of fiber optic cable connectors, a portion of each different type of fiber optic cable  
4 connector extending below its corresponding segment, said polishing fixture assembly further having  
5 a hub interconnecting with each of the plurality of segments; and  
6 a polishing pad assembly having a plurality of wedges, each wedge aligning with a  
7 corresponding fiber optic cable connector held in the polishing fixture assembly, said polishing pad  
8 assembly further having a base interconnecting with each of the plurality of wedges.